

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

K. NAGATA et al

Serial No.

Filed: August 9, 2001

For: METHOD AND APPARATUS FOR CHARGED  
PARTICLE BEAM EXPOSURE

**PRELIMINARY AMENDMENT**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Prior to examination, please amend the above-identified application as follows.

**IN THE CLAIMS**

Rewrite claim 13 as follows:

13. (Amended) The apparatus for charged particle beam exposure according to claim 9,


wherein said exposure dose data is converted into a binary number, and connection is made between output of the binary number, each digit thereof having a weight at a power of 2, and a plurality of said charged particle beam sources in said matrix state, each having a weight in a ratio of a power of 2, such that the weights of each digit of the output and each said charged particle beam source coincide with each other.

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REMARKS

Examination is requested.

Respectfully submitted,

  
John R. Mattingly 32,846  
Registration No. 30,293  
Attorney for Applicant(s)

MATTINGLY, STANGER & MALUR  
1800 Diagonal Road, Suite 370  
Alexandria, Virginia 22314  
(703) 684-1120  
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**MARKED UP VERSION OF REWRITTEN CLAIMS**

13. (Amended) The apparatus for charged particle beam exposure according to [any one of] claim 9 [and 10],

wherein said exposure dose data is converted into a binary number, and connection is made between output of the binary number, each digit thereof having a weight at a power of 2, and a plurality of said charged particle beam sources in said matrix state, each having a weight in a ratio of a power of 2, such that the weights of each digit of the output and each said charged particle beam source coincide with each other.